Contents

Marine Geology Volume 99, 1991

Research Papers	
Parasound echosounding: Comparison of analogue and digital echosounder records and physical properties of sediments from	
the Equatorial South Atlantic	
F. Rostek, V. Spiess and U. Bleil (Bremen, F.R.G.)	
Lamprophyric volcanism of Cenozoic age on the Sierra Leone Rise: Implications for regional tectonics and the stratigraphic time scale	
E.J.W. Jones (London, U.K.), D.A. Goddard (Caracas, Venezuela), J.G. Mitchell (Newcastle upon Tyne, U.K.) and F.T.	
Banner (London, U.K.)	19
Molluscan faunas and paleobathymetry of Holocene sequences in the northeastern Nile delta, Egypt	
M.P. Bernasconi (Arcavacata di Rende, Italy), D.J. Stanley (Washington, D.C., U.S.A.) and I. di Geronimo (Catania,	
Italy)	29
Late Quaternary evolution of the Burullus lagoon region, north-central Nile delta, Egypt	
D. Arbouille and D.J. Stanley (Washington, D.C., U.S.A.)	4:
Shoreline changes along the Rosetta-Nile Promontory: Monitoring with satellite observations	
H.W. Blodget and P.T. Taylor (Greenbelt, Md., U.S.A.) and J.H. Roark (College Park, Md., U.S.A.)	6
Marine geology of the Gulf of Trieste (northern Adriatic): Sedimentological aspects	
B. Ogorelec and M. Mišič (Ljubljana, Yugoslavia) and J. Faganeli (Piran, Yugoslavia)	79
Marine geology of the Gulf of Trieste (northern Adriatic): Geochemical aspects	
J. Faganeli and R. Planinc (Piran, Yugoslavia) and J. Pezdič, B. Smodiš, P. Stegnar and B. Ogorelec (Ljubljana,	
Yugoslavia)	93
Hydrothermal metallogenic processes off the islands of Nisiros and Kos in the Hellenic Volcanic Arc	
S.P. Varnavas (Patras, Greece) and D.S. Cronan (London, U.K.)	109
Late Pleistocene carbonate stratigraphy on Ontong-Java Plateau in the western equatorial Pacific	
G. Wu (Montreal, Que., Canada) and M.K. Yasuda and W.H. Berger (La Jolla, Calif., U.S.A.)	135
Hurricane-induced carbonate enrichment of a Holocene coastal bay sequence, Sarasota Bay, Florida	
S.C. Knowles (Vicksburg, Miss., U.S.A.) and R.A. Davis, Jr. (Tampa, Fla., U.S.A.)	15
Surface and near-surface sediments from the continental shelf off the Russian River, northern California	
S. Demirpolat (Gainesville, Fla., U.S.A.)	163
Sedimentary history and chemical characteristics of clay minerals in cores from the distal part of the Bengal Fan (ODP 116)	
S. Aoki (Asaka Saitama, Japan), N. Kohyama (Kawasaki, Japan) and T. Ishizuka (Tokyo, Japan)	175
Late Pleistocene sedimentation on the Norwegian continental slope between 67° and 71°N	
S.H. Yoon and S.K. Chough (Seoul, Korea) and J. Thiede and F. Werner (Kiel, F.R.G.)	187
Geochemical characteristics of Western Ross Sea (Antarctica) sediments	
O. Hieke Merlin (Venice, Italy), L. Longo Salvador (Trieste, Italy) and L. Menegazzo Vitturi, M. Pistolato and G.	
Rampazzo (Venice, Italy)	209
Un courant d'eau continu peut-il générer des turbidites? Résultats d'expérimentations analogiques	
Ph. Duringer (Strasbourg, France), J.C. Paicheler (Reims, France) et J.L. Schneider (Freiburg i. Br., Allemagne)	231
Letter Section	
Gravity anomalies and crustal structure of the western continental margin off Goa and Mulki, India	
V. Subrahmanyam, D. Gopala Rao, T. Ramprasad and K.A. Kamesh Raju (Goa, India) and M. Gangadhara Rao	
(Visakhapatnam, India)	247
Magnetic crust in the Bay of Bengal	
D.C. Mishra (Hyderabad, India)	257
Enhancement of diatom frustule dissolution by iron oxides	
L.M. Mayer, J. Jorgensen and D. Schnitker (Walpole, Maine, U.S.A.)	263
Coccolith sedimentation and transport in the North Sea	
S.D. Houghton (Milton Keynes, U.K.)	267

Special Issue: Deep Ocean Sediment Transport. Edited by A.R.M. Nowell

Preface	iii
Prologue: Abyssal storms as a global geologic process	
C.D. Hollister (Woods Hole, Mass., U.S.A.) and A.R.M. Nowell (Seattle, Wash., U.S.A.)	275
Characterization of deep-sea storms	
T.F. Gross (Savannah, Ga., U.S.A.) and A.J. Williams III (Woods Hole, Mass., U.S.A.)	281
The relationship of low-frequency deep variability near the HEBBLE site to Gulf Stream fluctuations	
E.B. Welsh and N.G. Hogg (Woods Hole, Mass., U.S.A.) and R.M. Hendry (Dartmouth, N.S., Canada)	303
Small-scale spatial structure and long-term variability of near-bottom layers in the HEBBLE area	
T. Ezer and G.L. Weatherly (Tallahasse, Fla., U.S.A.)	319
On the interaction of the bottom boundary layer and deep rings	
G. Peggion and G.L. Weatherly (Tallahassee, Fla., U.SA.)	329
Suspended sediment storm modelling	
T.F. Gross (Savannah, Ga., U.S.A.) and W.B. Dade (Seattle, Wash., U.S.A.)	343
Sediment concentration profiling in HEBBLE using a 1-MHz acoustic backscatter system	
J.F. Lynch (Woods Hole, Mass., U.S.A.), T.F. Gross (Savannah, Ga., U.S.A.), B.H. Brumley (San Diego, Calif., U.S.A.)	
and R.A. Filyo (Woods Hole, Mass., U.S.A.)	361
A model-dependent method for inverting vertical profiles of scattering to obtain particle size spectra in boundary layers	
J.F. Lynch (Woods Hole, Mass., U.S.A.) and Y.C. Agrawal (Kent, Wash., U.S.A.)	387
In-situ measurements of particle settling velocity in the deep sea	
I.N. McCave (Cambridge, U.K.) and T.F. Gross (Savannah, Ga., U.S.A.)	403
The fauna of the HEBBLE site: patterns in standing stock and sediment-dynamic effects	
D. Thistle and S.C. Ertman (Tallahassee, Fla., U.S.A.) and K. Fauchald (Washington, D.C., U.S.A.)	413
Rates of particle scavenging, sediment reworking, and longitudinal ripple formation at the HEBBLE site based on measurements of ²³⁴ Th and ²¹⁰ Pb	
D.J. DeMaster and D.C. Brewster (Raleigh, N.C., U.S.A.), B.A. McKee (Chauvin, La., U.S.A.) and C.A. Nittrouer	
(Stony Brook, N.Y., U.S.A.)	423
HEBBLE epilogue	
C.D. Hollister (Woods Hole, Mass., U.S.A.) and A.R.M. Nowell (Seattle, Wash., U.S.A.)	445

